



SEQUENCE LISTING

<110> Role, Lorna W.
Talmage, David
Bao, Jianxin

<120> A-FORM OF CYTOPLASMIC DOMAIN OF nARIA (CRD-NEUREGULIN
AND USES THEREOF

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<140> 09/312,596

<141> 1999-05-14

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<170> PatentIn Ver. 2.1

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<212> DNA

<213> CHICKEN nARIA

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35 40 45

Trp Ala Ile Gly Ser Leu Asn Pro Val Asn Leu Phe Ala Ala Arg Gly
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Cys Leu Ser Pro Arg Pro Pro Ser Pro Cys Phe Val Leu Phe Arg Leu
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Leu Ser Gly Gly Arg Ser Phe Pro Gln Ser Glu Glu Leu Glu Leu Leu
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Glu Arg Arg Ile Arg Asn Tyr Lys Ser Gly Gln Glu Thr Arg Ala Gln
100 105 110

Xaa Leu Gln Ser Cys Pro Trp Leu Arg Gln Gly Ser Val Ser Gly Arg
115 120 125

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Ser Pro Ser Ser Asp Asp Val Ala Val Ser Asp Leu Ser Leu Thr Pro
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Ala Leu Xaa Phe Leu Leu Ser Ala Val Thr Val Thr Pro Ser Leu Ser
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Val Cys Val Ser Gln Xaa Trp Thr Val Ile Glu Leu Arg Pro Phe Gly
180 185 190

Gly Glu Leu Cys His Ser Xaa Cys Leu Asn Met Ser Glu Val Gly Thr
195 200 205

Glu Thr Phe Pro Ser Pro Ser Ala Gln Leu Ser Pro Asp Ala Ser Leu
210 215 220

Gly Gly Leu Pro Ala Glu Glu Asn Met Pro Gly Pro His Arg Glu Asp
225 230 235 240

Ser Arg Val Pro Gly Val Ala Gly Leu Ala Ser Thr Cys Cys Val Cys
245 250 255

Leu Glu Ala Glu Arg Leu Lys Gly Cys Leu Asn Ser Glu Lys Ile Cys
260 265 270

Ile Ala Pro Ile Leu Ala Cys Leu Leu Ser Leu Cys Leu Cys Ile Ala
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Gly Leu Lys Trp Val Phe Val Asp Lys Ile Phe Glu Tyr Asp Ser Pro
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Thr His Leu Asp Pro Gly Arg Ile Gly Gln Asp Pro Arg Ser Thr Val
305 310 315 320

Asp Pro Thr Ala Leu Ser Ala Trp Val Pro Ser Glu Val Tyr Ala Ser
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Pro Phe Pro Ile Pro Ser Leu Glu Ser Lys Ala Glu Val Thr Val Gln
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Tyr Asn Arg Ile Leu Asp Val Gly Leu Trp Ser Ser Ala Thr Pro Ser
370 375 380

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Pro Pro Arg Tyr Leu Cys Arg Cys Pro Asn Glu Phe Thr Gly Asp Arg
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Phe Met Glu Ala Glu Glu Leu Tyr Gln Lys Arg Val Leu Thr Ile Thr
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Gly Ile Cys Ile Ala Leu Leu Val Val Gly Ile Met Cys Val Val Ala
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Tyr Cys Lys Thr Lys Lys Gln Arg Lys Lys Leu His Asp Arg Leu Arg
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Gln Ser Leu Arg Ser Glu Arg Asn Asn Val Met Asn Met Ala Asn Gln
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Pro His His Pro Asn Pro Pro Pro Asp Asn Val Gln Leu Val Asn Gln
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Tyr Val Ser Lys Asn Ile Ile Ser Ser Glu Arg Val Val Glu Arg Glu
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Ser Met Thr Val Thr Gln Thr Pro Ser His Ser Trp Ser Asn Gly His
595 600 605

Thr Glu Ser Ile Leu Ser Glu Ser His Ser Val Leu Val Ser Ser Ser
610 615 620

Val Glu Asn Ser Arg His Thr Ser Pro Thr Gly Pro Arg Gly Arg Leu
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Asn Gly Ile Gly Gly Pro Arg Glu Gly Asn Ser Phe Leu Arg His Ala
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Arg Glu Thr Pro Asp Ser Tyr Arg Asp Ser Pro His Ser Glu Arg Tyr
660 665 670

Val Ser Ala Met Thr Thr Pro Ala Arg Met Ser Pro Val Asp Phe His
675 680 685

Thr Pro Thr Ser Pro Lys Ser Pro Pro Ser Glu Met Ser Pro Pro Val
690 695 700

Ser Ser Leu Thr Ile Ser Ile Pro Ser Val Ala Val Ser Pro Phe Met
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Asp Glu Glu Arg Pro Leu Leu Leu Val Thr Pro Pro Arg Leu Arg Glu
725 730 735

Lys Tyr Asp Asn His Leu Gln Gln Phe Asn Ser Phe His Asn Asn Pro
740 745 750

Thr His Glu Ser Asn Ser Leu Pro Pro Ser Pro Leu Arg Ile Val Glu
755 760 765

Asp Glu Glu Tyr Glu Thr Thr Gln Glu Tyr Glu Pro Ala Gln Glu Pro
770 775 780

Pro Lys Lys Leu Thr Asn Ser Arg Arg Val Lys Arg Thr Lys Pro Asn
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Gly His Ile Ser Ser Arg Val Glu Val Asp Ser Asp Thr Ser Ser Gln
805 810 815

Ser Thr Ser Ser Glu Ser Glu Thr Glu Asp Glu Arg Ile Gly Glu Asp
820 825 830

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835 840 845

Ala Ala Ala Tyr Arg Leu Ala Glu Asn Arg Thr Asn Pro Ala Asn Arg
850 855 860

Phe Ser Thr Pro Glu Glu Leu Gln Ala Arg Leu Ser Ser Val Ile Ala
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Asn Gln Asp Pro Ile Ala Val Xaa Asp Ile Asn Lys Thr His Arg Phe
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Thr Cys Lys Thr Leu Phe Tyr Ile Met Lys Tyr Ser Thr Phe Lys Leu
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Asn Asn Leu Phe Tyr Phe Ser Asn Ser Ala Asp Arg Lys Gln Glu Trp
915 920 925

Lys Lys Lys Leu Leu Xaa Ile Lys Tyr Thr Tyr Val Gln Met Cys Tyr
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Val Pro Tyr Val Ala Ile Phe Tyr Ser Ile Ser Lys Met Gly Lys Asp
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Ile Asn Gly Ala Phe Met Leu Cys Tyr Val Glu Ser Lys Phe Cys Thr
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Ala Thr Met Ile Ala Val Pro Xaa Tyr Phe Ala Lys Pro Ser Ser Pro
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Gln Leu Phe Trp Leu Phe Cys Ala Leu His Tyr Asn Asp Trp Met Tyr
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Asp Leu Gln Glu Leu Gln Lys Ser Pro Phe Ala Cys Cys Gly Ile Pro
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Arg Ser Lys Ser Pro Val Met Ala Leu Thr Pro Tyr Pro Leu His Gln
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35 40 45

Pro Ser Thr Gln Leu Ser Ala Asp Pro Ser Leu Asp Gly Leu Pro Ala

50 55 60

Ala Glu Asp Met Pro Glu Pro Gln Thr Glu Asp Gly Thr Pro Gly Leu

65 70 75 80

Val Gly Leu Ala Val Pro Cys Cys Ala Cys Leu Glu Ala Glu Arg Leu

85 90 95

Arg Gly Cys Leu Asn Ser Glu Lys Ile Cys Ile Val Pro Ile Leu Ala

100 105 110

Cys Leu Val Ser Leu Cys Leu Cys Ile Ala Gly Leu Lys Trp Val Phe

115 120 125

Val Asp Lys Ile Phe Glu Tyr Asp Ser Pro Thr His Leu Asp Pro Gly

130 135 140

Gly Leu Gly Gln Asp Pro Ile Ile Ser Leu Asp Ala Thr Ala Ala Ser
145 150 155 160

Ala Val Trp Val Ser Ser Glu Ala Tyr Thr Ser Pro Val Ser Arg Ala
165 170 175

Gln Ser Glu Ser Glu Val Gln Val Thr Val Gln Gly Asp Lys Ala Val
180 185 190

Val Ser Phe Glu Pro Ser Ala Ala Pro Thr Pro Lys Asn Arg Ile Phe
195 200 205

Ala Phe Ser Phe Leu Pro Ser Thr Ala Pro Ser Phe Pro Ser Pro Thr
210 215 220

Arg Asn Pro Glu Val Arg Thr Pro Lys Ser Ala Thr Gln Pro Gln Thr
225 230 235 240

Thr Glu Thr Asn Leu Gln Thr Ala Pro Lys Leu Ser Thr Ser Thr Ser
245 250 255

Thr Thr Gly Thr Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr
260 265 270

Phe Cys Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn
275 280 285

Pro Ser Arg Tyr Leu Cys Lys Gly Gly Gly Ala Val Pro Glu Glu Ser
290 295 300

Ala Asp His Asn Arg His Leu His Arg Pro Pro Cys Gly Arg His His
305 310 315 320

Val Cys Gly Gly Leu Leu Gln Asn Gln Glu Thr Ala Glu Lys Ala Ala
325 330 335

Xaa Pro Ser Ser Ala Glu Pro Ser Val Xaa Thr Lys Gln Tyr Asp Glu
340 345 350

His Cys Gln Trp Ala Ser Pro Ser Xaa Pro Thr Pro Arg Glu Cys Pro
355 360 365

Ala Gly Glu Ser Ile Arg Ile Xaa Lys Arg His Leu Gln Xaa Ala Tyr
370 375 380

Cys Xaa Glu Arg Ser Arg Asp Ile Leu Phe His Gln Ser Leu Tyr Phe
385 390 395 400

His Ser Pro Ser Leu His Tyr Cys His Pro Asp Ser Xaa Pro Gln Leu
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